

### Appendix 3 Carbon Impact Assessment – Council Building Decarbonisation Programme

Will the decision/proposal impact...	Impact	If an impact or potential impacts are identified			
		Describe impacts or potential impacts on emissions from the Council and its contractors.	Describe impact or potential impacts on emissions across Rotherham as a whole.	Describe any measures to mitigate emission impacts	Outline any monitoring of emission impacts that will be carried out
Emissions from non-domestic buildings?	Positive Impact	Interactions to install low carbon heating systems, reduce energy consumption combined with the installation of renewable energy where feasible will reduce carbon emissions from operational buildings	Reduced emissions	-	CO <sub>2</sub> emissions are monitored and reported and will continue to be reported to assess reductions achieved and analyse measures used.
Emissions from transport?	Reduces Emissions	Two stages considered: 1. There will be minimal impact during the installation phases. 2. EV charging systems will be installed as part of the delivery contract providing positive impacts.	EV chargers should reduce emissions	Transport will be kept to a minimum during installation.	Contractors will be required to report project emissions on completion.
Emissions from waste, or the quantity of waste itself?	No impact	-	-	-	-
Emissions from housing and domestic buildings?	No impact	-	-	-	-
Emissions from construction and/or development?	Impact Unknown	There will be minimal impact during the installation phase.	Minimal	Contractors will reduce emissions and environmental impact where possible.	Liaison with Council officers will include monitoring of activities to ensure minimal impact

Carbon capture (e.g. through trees)?	Nil	-	-	-	-
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Identify any emission impacts associated with this decision that have not been covered by the above fields:

- Reduced CO2 emissions from Council operational buildings through decarbonisation, increased on-site renewable energy and energy efficiency measures.
- Reduced CO2 emissions from a heat network, 48gCO2/kWh of heat compared with the emissions from a typical gas boiler 228gCO2/kWh of heat.

Please provide a summary of all impacts and mitigation/monitoring measures:  
Decarbonisation measures will reduce emissions and provide a positive impact.

Supporting information:																						
Completed by: (Name, title, and service area/directorate).	David Rhodes, Environmental, Energy & Data Manager, R&E																					
Please outline any research, data, or information used to complete this [form].	Numerous research carried out to confirm the carbon benefits of PV systems																					
If quantities of emissions are relevant to and have been used in this form please identify which conversion factors have been used to quantify impacts.	The Council has actively reduced energy consumption and operational CO <sub>2</sub> emissions since 2014. Decarbonisation measures will accelerate reductions contributing to the Council NZ 2030 target.																					
	<table border="1"> <thead> <tr> <th></th> <th>Annual CO<sub>2</sub> Emissions (tonnes)</th> <th>% Reduction</th> </tr> </thead> <tbody> <tr> <td><b>2014/2015</b></td> <td>14,589</td> <td>0</td> </tr> <tr> <td><b>2015/2016</b></td> <td>12,796</td> <td>14.01%</td> </tr> <tr> <td><b>2016/2017</b></td> <td>10,896</td> <td>17.44%</td> </tr> <tr> <td><b>2017/2018</b></td> <td>9,047</td> <td>20.44%</td> </tr> <tr> <td><b>2018/2019</b></td> <td>7,005</td> <td>29.15%</td> </tr> <tr> <td><b>2019/2020</b></td> <td>6,003</td> <td>16.69%</td> </tr> </tbody> </table>		Annual CO <sub>2</sub> Emissions (tonnes)	% Reduction	<b>2014/2015</b>	14,589	0	<b>2015/2016</b>	12,796	14.01%	<b>2016/2017</b>	10,896	17.44%	<b>2017/2018</b>	9,047	20.44%	<b>2018/2019</b>	7,005	29.15%	<b>2019/2020</b>	6,003	16.69%
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		2020/2021	5,034	19.25%	
Tracking [to be completed by Policy Support / Climate Champions]		2021/2022	4,844	3.7%	CIA061 Rachael Cranch, Climate Change Officer Re-reviewed 23/08/23 by Louise Preston, Climate Change Manager